

Claims

1. A marking fluid comprising hydroxypyrenetrisulfonic acid or a derivative thereof and at least one sugar or sugar alcohol selected from the group consisting of palatinose, trehalose, trehalulose, maltite, 6-O- α -D-glucopyranosyl-D-sorbitol (1,6-GPS) and 1-O- α -D-glucopyranosyl-D-mannitol (1,1-GPM).
2. A marking fluid according to claim 1, such that the marking fluid exhibits a pH of 8 to 14.
3. A marking fluid according to one of the previous claims, such that the marking fluid exhibits a pH of 9 to 10.
4. A marking fluid according to one of the previous claims, such that the marking fluid represents an aqueous fluid.
5. A marking fluid according to one of the previous claims, such that the marking fluid exhibits a moistening agent, especially urea, glycols, or a diglycol.
6. A marking fluid according to one of the previous claims, such that at least one additional dye is contained within the marking fluid.
7. A marking fluid according to one of the previous claims, such that the marking fluid contains at least one preservative.

8. A marking fluid according to one of the previous claims, such that the preservative is an isothiazolinone derivative.

9. A marking fluid according to one of the previous claims, such that the marking fluid contains at least one buffer substance.

10. A marking fluid according to one of the previous claims, such that the buffer substance is trishydroxymethylaminomethane, sodium citrate, sodium carbonate, and/or sodium hydroxide.

11. A marking fluid according to one of the previous claims, such that the marking fluid exhibits at least one surface-active agent.

12. A marking fluid according to one of the previous claims, such that the marking fluid exhibits at least one water-soluble binding agent.

13. A marking fluid according to one of the previous claims, such that the sugar alcohol is a mixture of 1,6-GPS, and 1,1-GPM.

14. A marking fluid according to one of the previous claims, such that the sugar or sugar alcohol is contained in a quantity of 5 to 50% by weight, relative to the total weight of the marking fluid.

15. A marking fluid according to one of the previous claims, such that the hydroxypyrenetrisulfonic acid or its derivative is present in a quantity of 0.5 to 8% by weight, relative to the total weight of the marking fluid.

16. Methods for the manufacture of a marking fluid comprising hydroxypyrenetrisulfonic acid, or a derivative thereof, and at least one sugar or sugar alcohol selected from the group consisting of palatinose, trehalose, trehalulose, 1,6-GPS, and 1,1-GPM, such that a mixture of dyes comprising the hydroxypyrenetrisulfonic acid or its derivative is manufactured in water and, if necessary, alkaline buffer, preservative if necessary, moistening agent if necessary, and if necessary, additional additives, and mixed with the one sugar or sugar alcohol, at least.